

Bridge over Sanda (Faroe Islands)

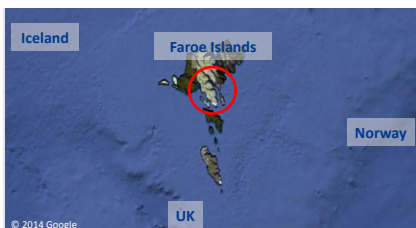


Project description

The Faroe Islands are an archipelago between the Norwegian Sea and the North Atlantic Ocean, approximately halfway between Norway and Iceland, 320 kilometers north-northwest of Great Britain. Infrastructure on the islands has been developed extensively and some 80 percent of the population is connected by tunnels through the mountains between the islands, bridges and causeways.

The bridge over Sanda is a 140 m long and 14.5 m wide road structure located between the cities of Torshavn and Argir on the largest island called Streymoy. Sleek V-type piers, well-balanced proportions of spans, and its deck make the bridge perfectly fit into the beautiful landscape.

The bridge is located between the cities Torshavn and Argir



mageba scope

A total of twelve RESTON®SPHERICAL bearings have been installed in the bridge's two abutments and three piers. The load bearing capacity varies between 1,037 kN and 7,630 kN, while the maximum total longitudinal movement reaches 80 mm. mageba also supplied steel shim plates for the upper connection of the bearings to the deck. The bearing design was completed in accordance to ETA08/0115 and all products feature the CE label.

Moreover, the supply comprised TENSA®CRETE single gap joints with sinus plates on their surface hence reducing noise from over-passing traffic by up to 80 %. These joints are anchored in ROBO®FLEX, mageba's quick-hardening and watertight polymer concrete.

Construction of the deck which is supported by mageba RESTON®SPHERICAL bearings



Highlights & facts

mageba products:

Products: RESTON®SPHERICAL of types KA-2, KE-1, KE-8, KF-2, TENSA®CRETE expansion joints of type RE-LS100

Installation: 2014–2015 by J & K Petersen Contractors

Structure:

City: Between the cities of Torshavn and Argir

Country: Faroe Islands

Type: Concrete bridge

Construction: 2014–2016

Length: 140 m

Owner: Tórshavn Municipality

Contractor: J & K Petersen Contractors

Engineer: LBF P/F

Construction of approaches to the bridge

